

# MODEL ECO1005 CONVENTIONAL THERMAL DETECTOR

## FEATURES

- Low profile design
- Low current draw
- Operates on 12 and 24VDC Systems
- Remote alarm test feature
- Easy Maintenance
- Range of detector bases available
- Remote LED Option
- Certified to EN54 part 5 (2000) Class A1R
- Extended warranty



## DESCRIPTION

The ECO1005 thermal detector belongs to System Sensor's ECO1000 range of detectors. ECO1000 is a range of conventional detectors, which have been produced using the latest in manufacturing technology and supplied with an array of advanced features, making them 'better by design'.

The ECO1005 thermal detector uses a state of the art thermal element combined with an application specific integrated circuit (ASIC) to provide quick and accurate detection of fires. The detector incorporates both rate of rise and static elements and is suitable for all areas where the ambient conditions do not normally exhibit rapid changes in temperature.

A laser-based hand held Remote Test Unit can be used in conjunction with the range of ECO1000 detectors for alarm test purposes. The unit transmits a coded message, preventing spurious alarms being generated by other laser-based devices. With a range of several metres, the hand held test unit provides an effortless way of remotely alarm testing the range of ECO1000 detectors and removes the need for any direct physical access to the detector by the user.

The ECO1005 detector also has an integral LED, which illuminates to provide a local alarm signal. This latches on, and remains illuminated until the detector is reset by a momentary power interruption. An optional remote LED annunciator may be used to repeat any alarm signal.

A variety of detector bases can be used with the ECO1005 detector, providing application flexibility and compatibility with a wide range of Fire Alarm Control Panels. All bases are fitted with a shorting spring to permit circuit testing prior to fitting the detector and have a tamper resistant feature, which when activated prevents removal of the detector without the use of a tool.

All System Sensor products are covered by our extended 3-year warranty.

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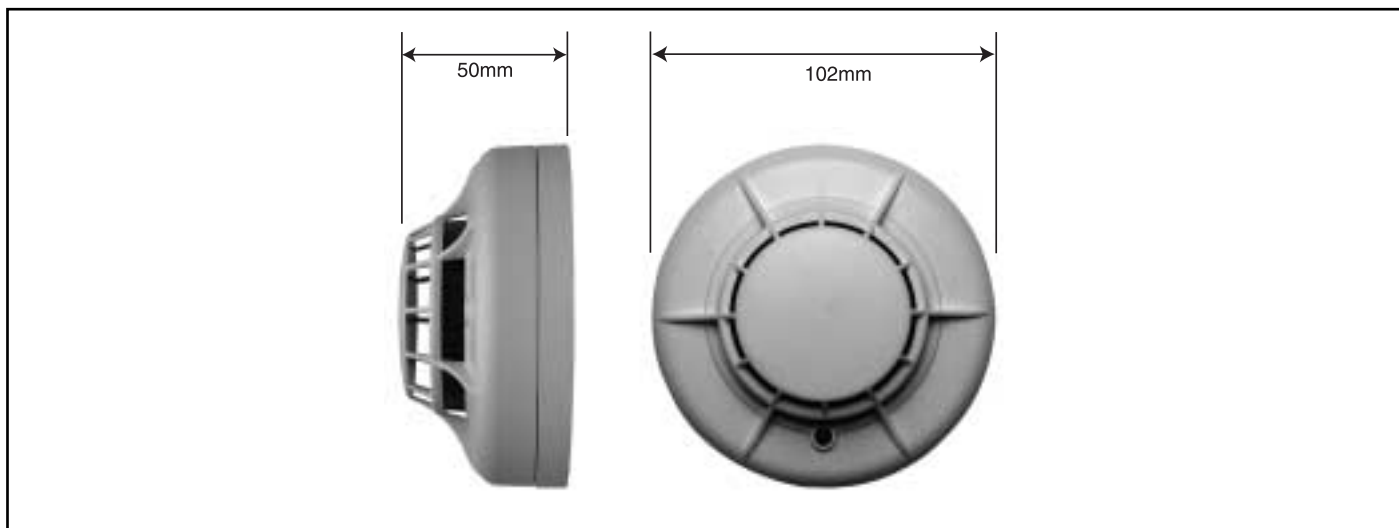
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## SPECIFICATIONS

### Electrical

Operating Voltage Range	8 to 30 VDC (Nominal 12/24VDC)
Typical Standby Current	120 $\mu$ A
Maximum Permissible Alarm Current	50mA (current limited by control panel)

### Environmental

Operating Temperature Range (see note 1)	-20°C to +60°C
Storage Temperature	-30°C to +70°C
Humidity	5 to 95% Relative Humidity (non-condensing)
Max Air Velocity	N/A
	58°C (static element)

### Mechanical

Height (without base)	40.5mm
Diameter	102mm
Weight	70g
Max Wire Gauge for Terminals	1.5mm <sup>2</sup>
Colour	Approximates RAL9016
Material	ABS
Product Range	
Bases (see note 2)	ECO1000B Standard Base ECO1000BSD Standard base with schotty diode ECO100R Resistor base 470 ohm ECO1000BRSD Resistor base 470 ohm with schotty diode ECO1000RTU Remote test unit ECO1002 Photoelectric/Thermal Detector ECO1003 Photoelectric Detector ECO1005T Fixed Temperature Thermal

### Accessories

### Other Detectors

Note: (1) To avoid unwanted alarm conditions being triggered by class A1R and A1S detectors the maximum ambient operating temperature should not exceed 45°C.

(2) Bases with other resistor values are available to suit the requirements of most Fire Alarm Control Panels.

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